

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P456273

Luminaire Tested: **GALN-SA7C-730-U-T3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456273  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7C-730-U-T3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 44224 lumens  
Efficiency: N/A  
Efficacy: 117.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G5

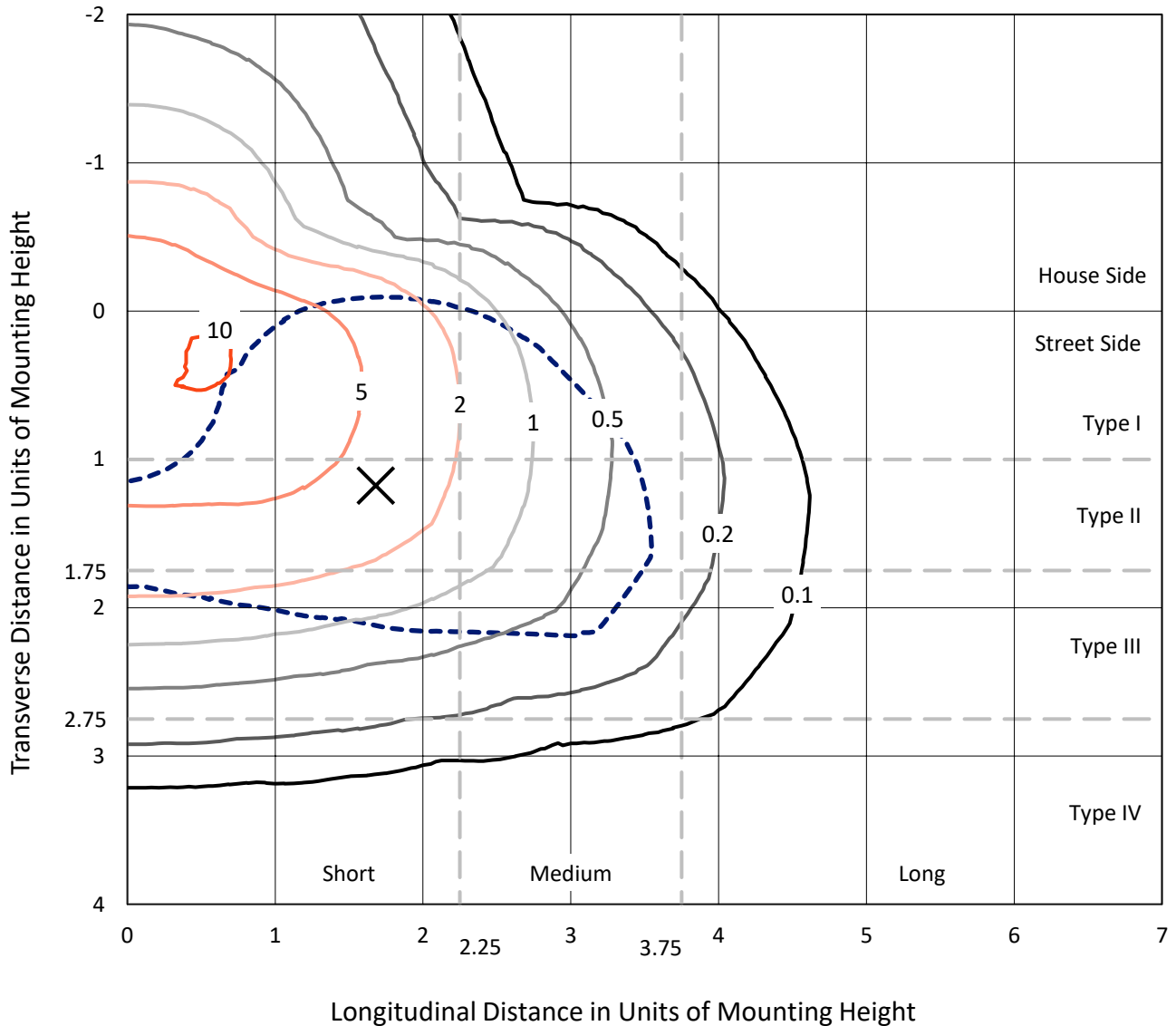
Input Watts (W): 377  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

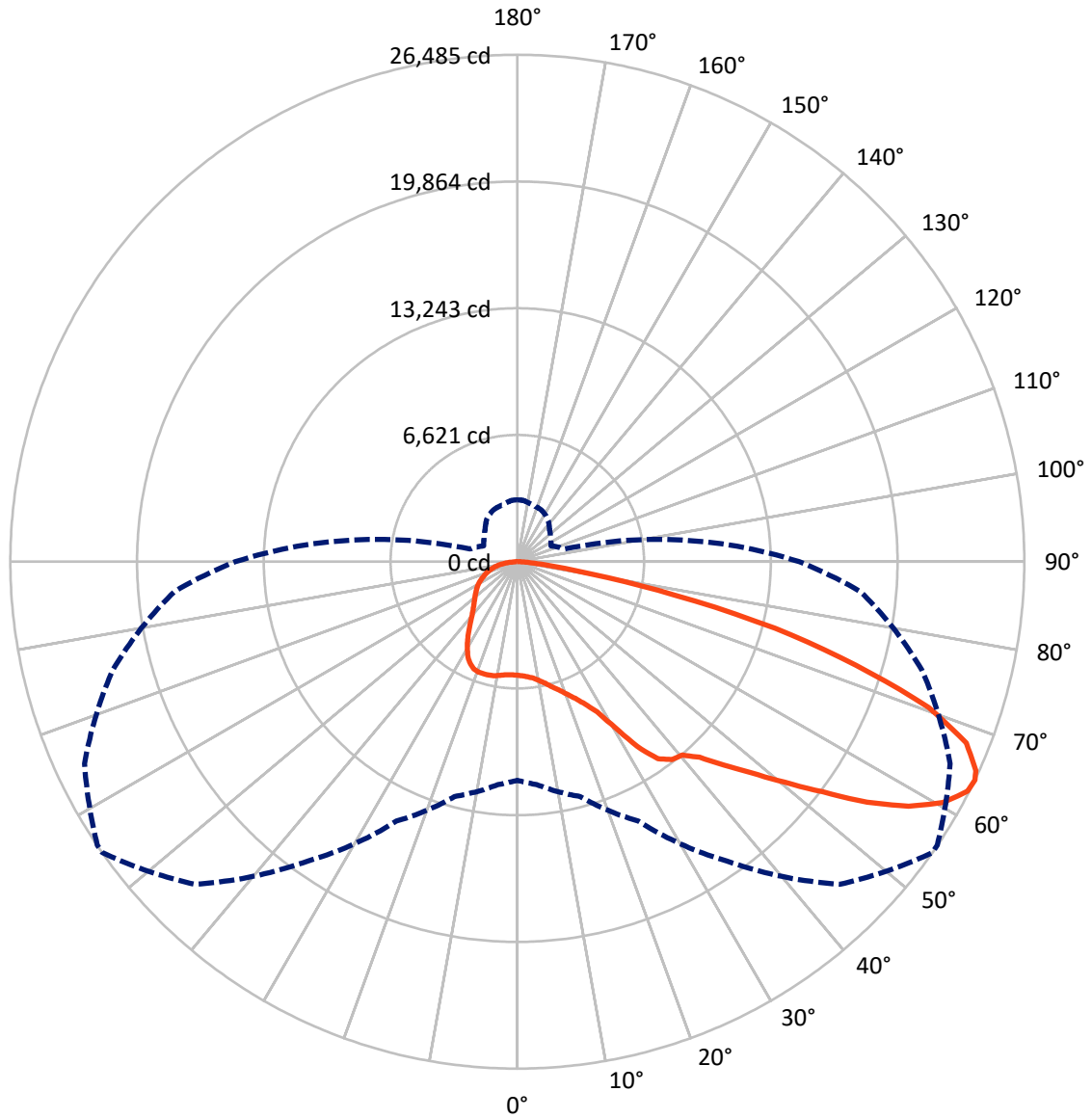
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral      - - - Horizontal Cone Through 64-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10742.9	0.0	10742.9
	% Fixture	24.3	0.0	24.3
<b>Street Side</b>	Lumens	33481.1	0.0	33481.1
	% Fixture	75.7	0.0	75.7
<b>Total</b>	Lumens	44224.0	0.0	44224.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	577.2	1.3
10°-20°	1821.2	4.1
20°-30°	3242.2	7.3
30°-40°	4988.4	11.3
40°-50°	7071.4	16.0
50°-60°	10235.7	23.1
60°-70°	10592.9	24.0
70°-80°	4960.7	11.2
80°-90°	734.4	1.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	44224.0	100.0
0°-180°	44224.0	100.0

**Coefficient of Utilization**



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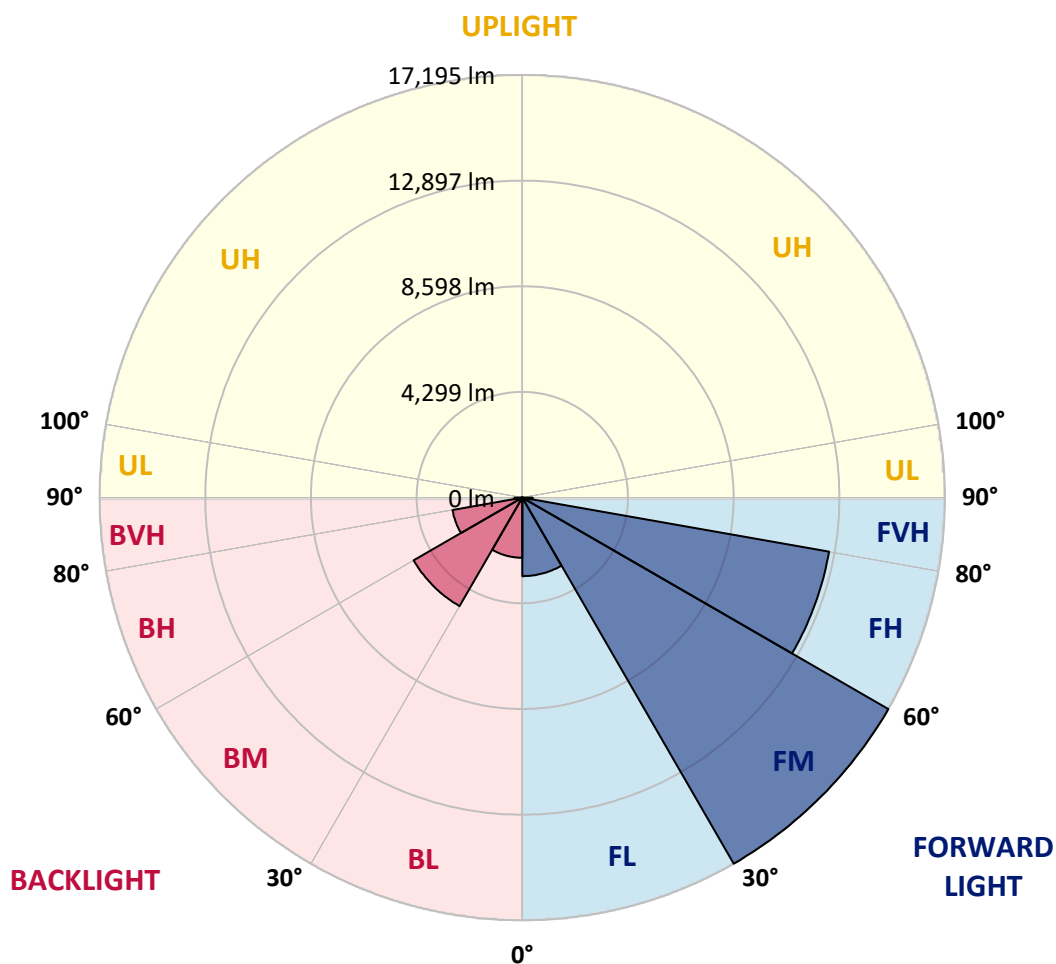
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3193.7	7.2			
FM (30°-60°)	17195.5	38.9			
FH (60°-80°)	12671.5	28.7			G5
FVH (80°-90°)	420.5	1.0			G3/500
BL (0°-30°)	2446.8	5.5	B3/2500		
BM (30°-60°)	5100.1	11.5	B4/8500		
BH (60°-80°)	2882.1	6.5	B4/5000		G4/5000
BVH (80°-90°)	313.9	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	5933.5	5933.5	5933.5	5933.5	5933.5	5933.5	5933.5	5933.5	5933.5	5933.5	5933.5
2.5°	6000.1	5997.6	6005.0	5997.6	6002.5	5985.3	5977.9	5982.8	5975.4	5963.1	5940.9
5°	6074.0	6071.6	6074.0	6064.2	6069.1	6059.2	6042.0	6046.9	6034.6	6007.5	5975.4
7.5°	6199.8	6189.9	6189.9	6187.4	6177.6	6162.8	6150.5	6145.5	6133.2	6098.7	6049.4
10°	6362.5	6362.5	6364.9	6345.2	6357.5	6330.4	6318.1	6315.6	6273.7	6229.3	6160.3
12.5°	6576.9	6589.2	6581.9	6572.0	6567.1	6557.2	6515.3	6525.2	6478.3	6401.9	6318.1
15°	6843.2	6862.9	6850.5	6845.6	6833.3	6796.3	6779.1	6771.7	6710.0	6599.1	6488.2
17.5°	7195.7	7171.0	7161.2	7148.8	7097.1	7069.9	7040.4	7035.4	6981.2	6850.5	6678.0
20°	7503.8	7538.3	7518.6	7506.3	7454.5	7402.7	7380.5	7373.2	7326.3	7183.3	6907.2
22.5°	7871.1	7878.5	7885.9	7856.3	7831.7	7792.2	7752.8	7740.5	7723.2	7575.3	7237.6
25°	8263.1	8292.6	8268.0	8238.4	8208.8	8206.4	8243.3	8238.4	8231.0	8088.0	7676.4
27.5°	8901.5	8928.6	8936.0	8904.0	8790.6	8800.5	8884.3	8911.4	9024.8	8788.1	8240.9
30°	9261.4	9288.5	9350.2	9471.0	9650.9	9808.7	10010.8	10072.4	10180.9	9734.7	8911.4
32.5°	9483.3	9493.1	9604.1	9828.4	10368.3	10957.4	11507.1	11529.3	11598.4	10972.2	9525.2
35°	9833.3	9840.7	9929.5	10176.0	10809.5	11790.6	12641.1	12668.2	12611.5	11356.8	9811.1
37.5°	10264.7	10284.4	10341.1	10545.8	11302.5	12488.3	13111.9	13092.2	12589.3	11662.4	10316.5
40°	10893.3	10893.3	10826.8	11102.9	11822.7	12887.6	13277.1	13242.6	13109.5	12547.4	11085.6
42.5°	11448.0	11438.1	11595.9	11783.2	12473.5	13503.9	13969.8	14026.5	14245.9	13659.2	11960.7
45°	12170.3	12214.6	12303.4	12643.6	13580.3	14556.5	15158.0	15212.2	15522.8	14968.2	12983.7
47.5°	12899.9	12914.7	13193.3	13646.9	14950.9	15983.8	16476.8	16565.6	16849.0	16499.0	14085.7
50°	13417.6	13558.1	14004.3	14719.2	16363.4	17724.2	18108.7	18214.7	18715.1	18165.4	15370.0
52.5°	13964.9	14102.9	14647.7	15737.3	17985.5	19504.0	19977.3	20048.8	20568.9	19851.6	16683.9
55°	14433.2	14561.4	15180.2	16639.5	19277.2	21320.8	22178.6	22094.8	22343.8	21150.7	17697.0
57.5°	14509.7	14613.2	15392.2	17216.3	20248.4	22878.7	24108.8	24158.1	23869.7	22121.9	18532.7
60°	13918.0	14130.0	15024.9	17154.7	20684.8	23963.4	25548.4	25582.9	24764.5	22619.9	18865.5
62.5°	12870.4	12848.2	13930.4	16163.7	20073.4	24209.9	26396.4	26359.4	25114.6	22380.8	18542.6
64°	11423.3	11689.6	12700.3	14946.0	19087.4	23830.2	26485.2	26465.4	24946.9	21882.8	17992.9
65°	10540.8	10526.0	11524.4	13950.1	18106.3	23258.3	26327.4	26300.3	24596.9	21436.6	17566.4
67.5°	7609.8	7644.3	8630.4	10765.1	14719.2	21022.5	25299.5	25198.4	23216.4	19957.6	15944.3
70°	4609.8	4629.5	5403.5	7141.4	10565.5	16994.5	22804.8	22809.7	21103.8	17748.8	13570.4
72.5°	2428.1	2479.9	2790.5	4055.1	6416.7	11923.7	18500.7	18939.5	18118.6	15148.1	10720.8
75°	1350.9	1358.3	1577.7	1999.2	3273.7	6673.1	13905.7	14031.4	14344.5	12192.4	7927.8
77.5°	1030.4	1045.2	1114.2	1291.7	1782.3	3093.7	8415.9	9047.0	10109.4	8595.8	4523.5
80°	835.7	850.5	909.6	1015.6	1185.7	1466.7	3909.7	4249.9	5410.9	3816.0	1765.0
82.5°	650.8	640.9	717.3	786.4	862.8	867.7	1604.8	1774.9	2203.8	1641.8	764.2
85°	483.2	483.2	544.8	530.0	557.1	507.8	707.5	781.4	882.5	697.6	355.0
87.5°	192.3	212.0	357.4	320.5	249.0	199.7	261.3	276.1	305.7	273.6	147.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5933.5	5933.5	5933.5	5933.5	5933.5	5933.5	5933.5	5933.5	5933.5	5933.5	5933.5
2.5°	5943.4	5950.8	5933.5	5921.2	5916.3	5908.9	5901.5	5903.9	5913.8	5923.7	5921.2
5°	5973.0	5975.4	5945.9	5931.1	5921.2	5911.3	5911.3	5918.7	5938.5	5953.2	5953.2
7.5°	6046.9	6046.9	6005.0	5977.9	5963.1	5945.9	5940.9	5943.4	5958.2	5977.9	5980.4
10°	6162.8	6152.9	6098.7	6056.8	6029.7	5987.8	5950.8	5931.1	5938.5	5950.8	5950.8
12.5°	6303.3	6276.2	6207.2	6150.5	6083.9	6005.0	5928.6	5889.2	5886.7	5899.0	5894.1
15°	6453.7	6424.1	6327.9	6224.4	6108.5	5992.7	5901.5	5844.8	5800.4	5788.1	5815.2
17.5°	6628.7	6567.1	6433.9	6291.0	6118.4	5968.0	5825.1	5709.2	5630.3	5608.1	5615.5
20°	6840.7	6759.3	6579.4	6355.1	6111.0	5879.3	5657.4	5502.1	5373.9	5334.5	5339.4
22.5°	7134.0	6993.5	6729.8	6387.1	6049.4	5711.7	5403.5	5201.4	5046.1	4984.5	5021.4
25°	7466.8	7314.0	6872.7	6379.7	5889.2	5443.0	5102.8	4839.0	4698.5	4607.3	4627.0
27.5°	7925.3	7654.2	7025.6	6313.2	5659.9	5115.1	4720.7	4471.7	4343.5	4296.7	4318.9
30°	8512.0	8095.4	7190.7	6133.2	5297.5	4701.0	4336.1	4173.4	4097.0	4037.9	4057.6
32.5°	8936.0	8406.0	7227.7	5830.0	4905.6	4323.8	4074.8	3954.0	3870.2	3813.5	3825.9
35°	9239.2	8669.8	7210.5	5457.8	4496.4	4013.2	3867.8	3769.2	3633.6	3510.3	3488.1
37.5°	9646.0	9000.1	7084.7	5051.0	4092.1	3803.7	3700.1	3517.7	3323.0	3157.8	3150.4
40°	10269.7	9387.1	6816.0	4572.8	3747.0	3648.4	3522.6	3286.0	3076.5	2943.3	2933.5
42.5°	10913.1	9744.6	6451.2	4069.9	3463.5	3485.7	3332.8	3098.6	2970.5	2884.2	2874.3
45°	11699.4	10131.6	6056.8	3633.6	3253.9	3332.8	3167.7	3032.1	2955.7	2899.0	2884.2
47.5°	12549.9	10528.5	5613.1	3241.6	3076.5	3192.3	3098.6	3037.0	2995.1	2955.7	2938.4
50°	13466.9	10972.2	5196.5	2926.1	2916.2	3046.9	3091.3	3069.1	3044.4	3032.1	3017.3
52.5°	14472.7	11425.8	4846.4	2704.2	2775.7	2943.3	3093.7	3111.0	3111.0	3103.6	3093.7
55°	15153.0	11741.3	4491.4	2524.3	2632.7	2859.5	3088.8	3155.3	3180.0	3170.1	3160.3
57.5°	15655.9	11913.9	4045.2	2369.0	2511.9	2778.2	3061.7	3160.3	3184.9	3197.3	3192.3
60°	15759.5	11753.7	3461.0	2206.3	2381.3	2659.9	2963.1	3086.3	3118.4	3194.8	3202.2
62.5°	15293.6	11260.6	2879.3	2046.0	2221.1	2479.9	2829.9	3002.5	3066.6	3184.9	3197.3
64°	14721.7	10708.4	2556.3	1945.0	2117.5	2378.8	2763.4	2980.3	3064.1	3221.9	3231.8
65°	14302.6	10306.6	2354.2	1880.9	2051.0	2312.3	2726.4	2987.7	3086.3	3278.6	3293.4
67.5°	12759.4	8923.7	1947.4	1730.5	1893.2	2198.9	2733.8	3049.3	3081.4	3300.8	3298.3
70°	10558.1	7104.5	1631.9	1592.5	1740.4	2107.7	2704.2	2950.7	2953.2	3098.6	3064.1
72.5°	7905.6	5250.7	1415.0	1449.5	1570.3	1890.7	2553.9	2817.6	2775.7	2795.4	2760.9
75°	5430.6	3473.3	1217.8	1296.6	1392.8	1671.3	2341.9	2558.8	2492.2	2467.6	2442.9
77.5°	2899.0	1920.3	1013.2	1146.3	1210.4	1444.6	2043.6	2253.1	2184.1	2088.0	2055.9
80°	1173.4	904.7	816.0	949.1	986.0	1163.5	1700.9	1831.6	1779.8	1612.2	1558.0
82.5°	589.2	542.3	640.9	746.9	749.4	830.7	1264.6	1387.9	1272.0	1067.4	1020.6
85°	308.1	318.0	441.3	525.1	463.4	448.7	759.3	840.6	771.6	670.5	604.0
87.5°	110.9	128.2	231.7	229.3	162.7	86.3	167.6	81.3	44.4	27.1	34.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)